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Digital video decoder for decoding digital high definition and/or digital standard definition (54)television signals

Methods and apparatus for reducing the com-(57)plexity of decoder circuitry and video decoder memory requirements are disclosed. The discribed video decoders are capable of decoding HDTV and/or SDTV pictures. The described video decoder may be used as part of a picture-in-picture decoder circuit for providing picture-in-picture capability without providing multiple full resolution video decoders. The reduction in decoder circuit complexity is achieved through the use of a plurality of data reduction techniques including the use of a preparser, downsampling, and truncating pixel values.

